

621.357.7

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The regularities of copper deposition from a chloride – sulfamate electrolyte in galvanostatic regime are defined. The influence of different factors on kinetic parameters of coppering are investigated. The main components concentration of electrolyte and electrodeposition regime is established.

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[1, 2].

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[2, 3].

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 -8, -1. -  
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 -2.  
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 08 18 10 .  
 99,9.

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 [4], 25 %-

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 , —  
 . , 0,25 .

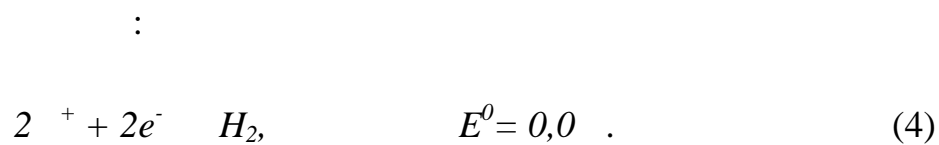
$\text{Cu}^{2+}$  -  
 —  $\text{CuCl}$ :



,  
 $\text{Cu}^{2+}$  :



,  
 (-0,03 ÷ -0,08 В)  
 $b = 0,057 \text{ В} \cdot \text{с}^{-1}$  -  
 $b$  -  
 , -  
 , 2. -  
 . -  
 ,  
 (1) (2).



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( $\frac{V}{\text{с}^3}$ ),	t, °C		, j, $\frac{V}{\text{с}^2}$	, j, $\frac{V}{\text{с}^2}$	, j, $\frac{V}{\text{с}^2}$
10	20	-	0,25	3,5	- 0,20
7	20	-	0,25	2,4	- 0,17
5	20	-	0,25	1,1	- 0,13
5	30	-	0,23	1,2	- 0,08
5	40	-	0,21	0,3	- 0,05
5	20		0,20	2,0	- 0,15
5	20		0,15	4,5	- 0,25

, -  
 ,

j

$$\frac{5}{3}$$

$$2-3$$

$$20$$

$$(u^{2+})$$

$$\frac{0,7-0,8}{7-8}$$

$$\frac{18-20^0}{72-82\%}$$

$$(2-7/3)$$

$$(1/3)$$

$$9-18$$

1.

1978. - 267

1974. - 560

1987. - 736

17-20.

17.04.07